# ICS2O0 Peripherals

Research the following questions.  Be sure to include the links where you found your information.

1. Find as many different input devices as you can. For each, state their function. Remember, an input device can be used for any purpose as long as it allows the user to interact with the computer. Hint: try to find peripherals to serve a specific purpose.

   **Keyboard**- Is used to insert characters and/or functions into the computer by clicking the keys on the keyboard.
   **Mouse**- Is used to position the cursor, move the cursor,click and select certain items on the computer
   **Microphone**- Is used to input audios into the computer for the purpose of voice recording, chatting with others, etc.
   **Image Scanner**- Is used to transport images or/and texts into a computer and is also used to take images or text from the computer and it also can take images and text from a computer and turn that into a digital image.
   **Web Cam**- Is used to video record or take a image of something that is within the frame of the camera.
   **USB Stick**- Is a storage device that can hold data and information according to its space. It can input data and information in the computer that was saved before. It can also save data and information from the computer.

2. Find as many different output devices as you can. For each, describe their function.

   **Printer-** Is a device that takes the images, texts from a computer and converts the information on a piece of paper. (Although the definition is a bit similar to image scanner, a printer performs  differently than a image scanner).
   **Monitor-** It allows the user or viewers to visualize information generated by the computer.
   **Speakers-** It allows the users or listeners to listen to the sound or audio in the computer.

3. Find a computer retailer that sells peripherals. For the following

peripherals, find the cheapest and most expensive product. Prepare a report comparing each pair. What are the benefits? What are the drawbacks? Is the extra cost worth it in your opinion? Explain.

### a)LCD Monitor

**Cheap Monitor**: Asus VB199T-P
**Retailer:** Best Buy
**Price:** $105
**Benefits**: Cheap to buy, has a resolution of 1280x1024, 178 degree viewing angles, 5 ms display which delivers smooth video display, it is fairly light as its 8.5 pounds.
**Drawbacks:** it is not that big as its 25.5 inches wide monitor, the colours are not that vibrant or bright as other monitors.



**Expensive Monitor:** AOC Agon AG352UCG6
**Retailer:**Best Buy
**Price**: $890
**Benefits:** Has a wide screen as its 35 inches wide, has a high resolution 3,440 x 1,440, colors are vibrant and bright.. and best monitor for gaming in the
marker as of now.
**Drawbacks:** Expensive to buy, heavy in weight as is 15 pounds.



In my opinion, the extra cost is worth it as it gives you a better experience specially a better gaming experience as it is one of the best gaming monitor in the market and it is very fast and efficient to use

compare to the cheap monitor.

## b)Laser Printer

**Cheap laser printer:** Brother Monochrome HLL2390DW
**Retailer**:Best Buy.
**Price:** $120
**Benefits**: Inexpensive to buy, can hold maximum 250 pages, has a fairly high print speed that is 32 ppm.
**Drawbacks**: Not built in full colour display, is a all in one type printer.



**Expensive Laser Printer:** Lexmark CX923dte
**Retailer:** Best Buy
**Cost** $11,447
**Benefits:** Is a multifunction type printer, it includes 2x500 sheet trays meaning that it can hold 1000 of sheets in once.
**Drawbacks:** Very expensive to buy, very complex to use as it has many different functions.



In my opinion the expensive laser printer is not worth it as it is very expensive, and it is very complicated to use whereas the cheap printer is easy to use, it fairly does a good job in printing scanning etc and it is very cheap to buy compare to the expensive laser printer.

### c)Optical Mouse

**Cheap Optical Mouse**:Mmnox Wired Optical Mouse (MSE01)

**Retailer:** Best Buy

**Cost** $4.99

**Benefits**: Inexpensive to buy, it is light weighted that is 0.3 kg,  and it has a perfect size as it has a height of 2 cm and width of 5 cm.

**Drawbacks**: It is not wireless, it is not designed for gaming, and the maximum sensor is only 1000 dpi.



**Expensive Optical Mouse:** Logitech MX Vertical Wireless Optical Mouse

**Retailer:** Best Buy

**Cost:** $130

**Benefits:** It is wireless, it is suitable for gaming, the maximum sensor is 4000 dpi.

**Drawbacks**:Expensive then usual mouses, it is not known to be the most comfortable mouse as the shape and size sometimes irritates users hands.



 In my opinion the expensive mouse is worth it because it is wireless which means you can use it from far away then the cheaper non-wireless mouse and it is more comfortable to used then the cheap mouse because it has a

rubber grip which is better than a plastic grip.

**Cheap Webcam**:Fosmon 21001WEB
**Retailer**: Best Buy
**Cost**:$20
**Benefits:**Cheap to buy, it does not require a software to run therefore you can plug it and the webcam will run, has 6 led lights for night vision viewing, and it is easy to mount on a PC.
**Drawbacks:** Does not include a microphone in the webcam, has a low resolution which is 1.2 megapixel.

**Expensive Webcam**: Razer Kiyo
**Retailer:** Best Buy
**Cost** $185
**Benefits**: Has a high resolution which is 1080p, has multi step ring lights, and includes a microphone in the webcam.
**Drawbacks:** More expensive to buy, requires a software to run, it is kinda complicated to mount on the PC.

In my opinion the expensive webcam is worth it because I make youtube videos therefore I need a webcam that has a high resolution and that has a good lighting. The expensive webcam also has another advantage then the cheaper webcam because the expensive webcam includes a microphone inside it which mean I don't have to buy a separate microphone because is already included.

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4. Research and list the bandwidth requirement for each of the following devices when connecting through a USB interface.
   a. Mouse - 1-5 kilobits per second
   b. Keyboard-12 mb/s
   c. Game controller-480mb/s
   d. Flash drive-480mb/s
   e. DVD-Rom
   f. Ipad
   g. Hard Drive 7200 RP
5. Create a list of devices that would require greater bandwidth than USB 2.0 would provide..
   - Smartphones
   - Data Transfer Cables
   - Video Adapters
   - Large Mass Storage Devices
   - Flash Drives
   - Hard Drive Bucks
   - External Hard Drives

6. Specify the bandwidth for the following interfaces?

| USB | Bandwidth for the interfaces. |
| --- | --- |
| USB 1.1 | 12Mbps |
| USB 2.0 | 480Mbps |
| USB 3.0 | 4.8Gbps |
| Thunderbolt | 10Gbps |
| eSATA | 8Gbps |
| Firewire | 800Mbps |